

**REMARKS**

Claims 1- 30 have been canceled. Claims 31-55 have been added to clarify the subject matter regarded as the invention. Claims 31-55 remain pending.

Claims 1-3, 5-8, 10, 12-13, 15-19, 21-24, 26, and 28-29 were rejected under 35 U.S.C. §103(a) as being over U.S. Patent No. 6,631,374 to Klein et al. (hereinafter “Klein”) in view of U.S. Patent No. 5,715,447 to Hayashi et al. (hereinafter “Hayashi”), and in view of U.S. Patent No. 7,093,081 to DeWitt, Jr. et al. (hereinafter “DeWitt”). Claims 1 and 17 were rejected under 35 U.S.C. §112. Further, claims 3, 17, and 19 were objected to of being of improper form for failing to further limit the subject matter of a previous claim. Finally, the drawings were objected to as the method of claim 1 must be shown or the features canceled from the claims. As claims 1-30 have been canceled, Applicant submits that the rejection of claims 1 and 17 under 35 U.S.C. §112, the objection to claims 3, 17, and 19, and the objection to the drawings for failing to show the features of claim 1 have been overcome in light of the introduction of new claims 31-55.

With regard to the claim rejections under 35 U.S.C. §103(a), the rejections are respectfully traversed. As stated, claim 1 recites “...creating a shadow cache configured to hold a modified block that has been physically redone and undone or that has been logically undone; collecting a list of all active transactions when a read-only transaction starts; determining a first log sequence number and a second log sequence number, the first log sequence number and the second log sequence number being used to compare another log sequence number of another modified block being loaded into the shadow cache; performing physical redo or undoing operations as the modified block is loaded into a read-only cache view as indicated by a comparison of the another log sequence number to the first log sequence number and the second log sequence number; and processing an active transaction list to physically undo an incomplete

action and to logically undo an active transaction to generate transactional consistency in the read-only cache view; and determining one or more other modified blocks that were created to generate the transactional consistency in the read-only cache view, the one or more other modified blocks being stored in the shadow cache and not an original database if a shared cache overflows.” Neither Klein, Hayashi, nor DeWitt disclose, teach, suggest, or motivate the claimed invention as set forth in claim 31. Thus, Applicants submit that claim 31 is allowable for the reasons stated above.

Claims 32-43 depend, directly or indirectly, from claim 31 and are believed to be allowable for the same reasons described above for claim 31.

New claim 44 recites a “...cache manager module configured to manage a shared cache that stores one or more database blocks in a memory of the database system and configured to create a write view of the database in the shared cache supporting read and write uses of the database and a read-only cache view of the database using the transaction log of the database, the read-only cache view being created in response to a read-only transaction of the database, the read-only cache view comprising the one or more database blocks of the shared cache that record a view of a version of the database at a time, wherein the cache manager is configured to use a non-transactional database to store the one or more database blocks that overflow the shared cache during use of the read-only cache view by the read-only transaction....” Neither Klein, Hayashi, nor DeWitt disclose, teach, suggest, or motivate the claimed invention as set forth in claim 44. Thus, Applicants submit that claim 44 is allowable for the reasons stated above.

Claims 45-55 depend, directly or indirectly, from claim 31 and are believed to be allowable for the same reasons described above for claim 1.

Reconsideration of the application and allowance of all claims are respectfully requested based on the preceding remarks. If at any time the Examiner believes that an interview would be helpful, please contact the undersigned.

Respectfully submitted,



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